

Geometry Review (Perimeter/Area/Volume)

Accelerated

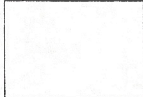

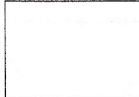
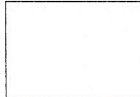
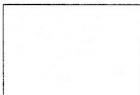



I. Find the missing dimension.

L = Length; W = Width. Show formula for area.


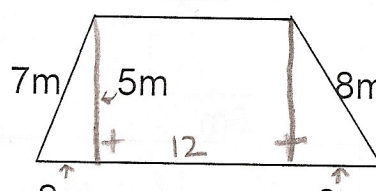
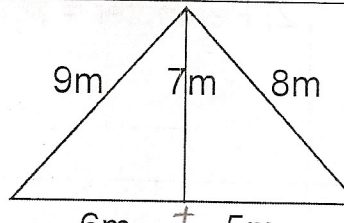
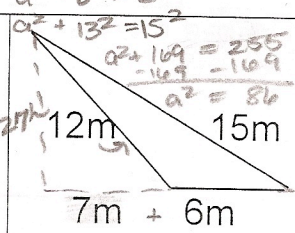
Name Key

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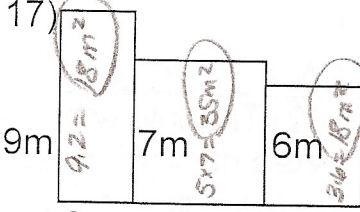
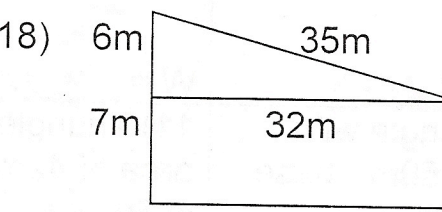
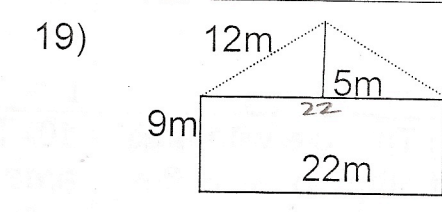
Date _____

<p>1) Area = 84m^2</p>  <p>4m</p>	<p>2) Perimeter = 36m</p> 	<p>3) Perimeter = 64m</p>  <p>8m</p>	<p>4) Area = 88m^2</p>  <p>4m</p>
<p>$A = l \cdot w$ $84 = 4w$ $\frac{84}{4} = \frac{4w}{4}$ $21 = w$</p> <p>W = <u>21m</u></p>	<p>$P = s_1 + s_2 + s_3 + s_4$ $36 = 4s$ $\frac{36}{4} = \frac{4s}{4}$ $9 = s$</p> <p>L = <u>9m</u></p>	<p>$P = 2L + 2w$ $64 = 2(8) + 2w$ $64 = 16 + 2w$ $\frac{64-16}{2} = \frac{2w}{2}$ $24 = w$</p> <p>W = <u>24m</u></p>	<p>$A = l \cdot w$ $88 = 4w$ $\frac{88}{4} = \frac{4w}{4}$ $22 = w$</p> <p>L = <u>22m</u></p>
<p>5) Area = 144m^2</p>  <p>8m</p>	<p>6) Area = 100m^2</p>  <p>$s_1 \times s_2 = 100$</p>	<p>7) Perimeter = 70m</p>  <p>5m</p>	<p>8) Perimeter = 48m</p>  <p>6m</p>
<p>$A = l \cdot w$ $144 = 8w$ $\frac{144}{8} = \frac{8w}{8}$ $18 = w$</p> <p>W = <u>18m</u></p>	<p>$A = l \cdot w$ $100 = 10 \cdot 10$</p> <p>L = <u>10m</u></p>	<p>$P = 2L + 2w$ $70 = 2(5) + 2w$ $70 = 10 + 2w$ $\frac{70-10}{2} = \frac{2w}{2}$ $30 = w$</p> <p>W = <u>30m</u></p>	<p>$P = 2L + 2w$ $48 = 2(6) + 2w$ $48 = 12 + 2w$ $\frac{48-12}{2} = \frac{2w}{2}$ $18 = w$</p> <p>W = <u>18m</u></p>
<p>9) Triangle with area of 48m^2; base is 8m; h = <u>12m</u></p> <p>$A_{\Delta} = \frac{bh}{2}$ $2 \times 48 = \frac{8h}{2}$ $96 = 4h$ $\frac{96}{4} = \frac{4h}{4}$ $24 = h$</p>	<p>10) Triangle with area of 50m^2; base is 5m; h = <u>20m</u></p> <p>$A_{\Delta} = \frac{bh}{2}$ $2 \times 50 = \frac{5h}{2}$ $100 = \frac{5h}{2}$ $\frac{100 \times 2}{5} = \frac{5h \times 2}{5}$ $40 = h$</p>	<p>11) Triangle with area of 42m^2; base is 3m; h = <u>28m</u></p> <p>$A_{\Delta} = \frac{bh}{2}$ $2 \times 42 = \frac{3h}{2}$ $84 = \frac{3h}{2}$ $\frac{84 \times 2}{3} = \frac{3h \times 2}{3}$ $56 = h$</p>	<p>12) Triangle with area of 64m^2; base is 8m; h = <u>16m</u></p> <p>$A_{\Delta} = \frac{bh}{2}$ $2 \times 64 = \frac{8h}{2}$ $128 = 4h$ $\frac{128}{4} = \frac{4h}{4}$ $32 = h$</p>

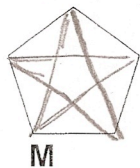
II. Find the Perimeter (P) and the Area (A). Show formula for area.

			
$P = 4(2.6)$ $\begin{array}{r} 2.6 \\ 4 \\ \hline 10.4 \end{array}$	<p>note: the two lines were not on the print out</p> $P = \text{add all sides}$ $\begin{array}{r} 12 + 7 + 8 + 3 + 12 + 2 \\ 19 \quad 27 \quad 30 \quad 42 \\ \hline 44 \end{array}$	$P = \text{add all sides}$ $\begin{array}{r} 9 + 8 + 5 + 6 \\ 17 \quad 22 \quad 28 \\ \hline \end{array}$	$P = \text{add all sides}$ $\begin{array}{r} 15 + 6 + 12 \\ 21 \quad 33 \\ \hline \end{array}$
<p>13) $P = 10.4m$</p>	<p>14) $P = 44m$</p>	<p>15) $P = 28m$</p>	<p>16) $P = 33m$</p>
$A = 2.6 \times 2.6$ $\begin{array}{r} 2.6 \\ 2.6 \\ \hline 15.6 \\ 520 \\ \hline 6.76 \end{array}$	$A_{\square} = \frac{(b_1 + b_2)h}{2}$ $\begin{array}{r} = \frac{(12 + 12)5}{2} \\ = \frac{(24)5}{2} \\ = \frac{120}{2} \\ = 60 \end{array}$	$A = \frac{bh}{2}$ $\begin{array}{r} = \frac{11(7)}{2} \\ = \frac{77}{2} \\ = 38.5 \end{array}$	$A_{\triangle} = \frac{b(h)}{2}$ $\begin{array}{r} = \frac{6(9.27)}{2} \\ = \frac{55.62}{2} \\ = 27.81 \end{array}$
<p>13) $A = 6.76m^2$</p>	<p>14) $A = 29m^2$</p>	<p>15) $A = 38\frac{1}{2}$ or $38.5m^2$</p>	<p>16) $A = 27.81m^2$</p>

III. Find the composite area. Show all formulas/work.

<p>17)</p> 	<p>18)</p> 	<p>19)</p> 
$\begin{array}{r} 18 \\ + 35 \\ \hline 53 \\ + 18 \\ \hline 71 \end{array}$ <p>$71m^2$</p>	$A_{\triangle} = \frac{bh}{2} = \frac{32(6)}{2} = \frac{192}{2} = 96m^2$ $A_{\square} = l \cdot w$ $\begin{array}{r} = 32 \cdot 7 \\ = 224m^2 \end{array}$ $\begin{array}{r} 224 \\ + 96 \\ \hline 320 \end{array}$ <p>$320m^2$</p>	$A_{\triangle} = \frac{bh}{2} = \frac{22(12)}{2} = \frac{264}{2} = 132m^2$ $A_{\square} = l \cdot w = 22 \cdot 9 = 198m^2$ $\begin{array}{r} 132 \\ + 198 \\ \hline 330 \end{array}$ <p>$330m^2$</p>

IV. Use the figures below to answer the following.

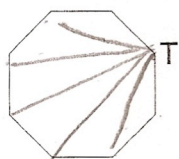


$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$

20) How many diagonals can be drawn *from point M*?

2

21) How many diagonals can be drawn in figure M?



$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$

22) How many diagonals can be drawn from point T?

5